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APPLICATION NO).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/671,715		09/27/2000	Anatoly Fabrikant	M-10699 US	M-10699 US 6087	
36257	7590	11/02/2004		EXAMINER		
		& DE RUNTZ LLI	SMITH, ZANDRA V			
655 MON' SUITE 18		Y STREET		ART UNIT	PAPER NUMBER	
		CA 94111		2877		
				DATE MAILED: 11/02/200-	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summan	09/671,715	FABRIKANT ET AL.				
Office Action Summary	Examiner	Art Unit	I			
	Zandra V. Smith	2877	pr			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address "				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.12 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the specified above is specified above.	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) d vill apply and will expire SIX (6) MONTHS fro, cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communicatio NED (35 U.S.C. § 133).	n.			
Status						
1) Responsive to communication(s) filed on <u>04 O</u>	<u>ctober 2004</u> .					
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.					
3) Since this application is in condition for allowar			S			
closed in accordance with the practice under E	ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-30, 36-58, 62-83, 87-108, and 112-139</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-30,36-57,62-83,87-108 and 112-139 is/are allowed.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is o	objected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 1196	(a)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under the creater of the	,u) (u) u ().				
1.☐ Certified copies of the priority document	s have been received.					
2. Certified copies of the priority document		ation No				
3. Copies of the certified copies of the prio	rity documents have been recei	ved in this National Stage				
application from the International Burea	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not recei	ved.	•			
•						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summa		Ų.			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail 5) Notice of Informa	Date I Patent Application (PTO-152)				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	6) Other:	in atent Application (F 10-192)				

DETAILED ACTION

Applicant's representative's arguments concerning the finality of the Office Action mailed on 17 June 2004 are correct. In response the finality of the action has been withdrawn.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 58 is rejected under 35 U.S.C. 102(e) as being anticipated by Xu et al. (US 6,483,580).

As to claim 58, Xu provides a spectroscopic provides a spectroscopic scatterometer, comprising:

directing a beam of polychromatic light at a diffractive structure and detecting corresponding intensities or changes in polarization state of the diffracted beam at a number of wavelengths (col. 9, line 60-col. 10, line 5);

a system carrying out a measurement of the structure to obtain measured intensities or changes in polarization state;

a data source that supplies a library of sets of intensity or changes in polarization state data (col. 7, lines 10-40);

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a processor providing one or more sets of intensity or changes in polarization state data of the diffraction at different wavelengths (col. 7, lines 7-20 and col. 9, lines 1-10) and deriving the value of one or more parameters of the diffracting structure from the measured intensity or changes in polarization state (col. 11, lines 35-60).

Allowable Subject Matter

Claims 1-30, 36-57, 62-83, 87-108, and 112-139 are allowable over the prior art of record.

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record, taken alone or in combination, fails to disclose or render obvious, performing an optimized estimation within a neighborhood of the set of change in polarization state data using said measured changes in polarization state to arrive at a second set of values of the one or more parameters, choosing a first set of values of the one or more parameters as a function of sensitivity of the change in polarization, storing the eigenvalues and using the stored eigenvalues for obtaining the value of one or more parameters of the diffracting structure, wavelengths of the intensity or change in polarization state data in the one or more sets are chosen to reduce the influence of the properties of the one or more layers, wherein density of the intensity or change in polarization state data provided at the wavelengths in the one or more sets is chosen as a function of sensitivity of the intensity or change in polarization state data to changes in wavelengths, in combination with the rest of the limitations of the claims.

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THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Response to Arguments

Applicant's arguments filed 04 October 2004 have been fully considered but they are not persuasive. Applicant's representative argues that Xu fails to provide the claimed details of claim 58. It remains the examiner's opinion that Xu provides the claimed limitations, specifically Xu provides a measurement system (see fig. 1), a computer for providing a reference database using multi-modal analysis (col. 7, line 20-col. 8, line 20), and in the scatterometry mode the system may be used to determine parameters of diffractive structures (col. 11, lines 35-55). Xu fails to specifically provide a library however a reference database is a functional equivalent.

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Fax/Telephone Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zandra V. Smith whose telephone number is (571) 272-2429. The examiner can normally be reached on 8:00 a.m. - 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley Jr. can be reached on (571) 272-2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Zandra V. Smith Primary Examiner

October 27, 2004